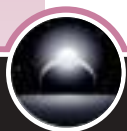


Mushroom Immune Defense™ Scientific Immunity Formula



The immune system is a fascinating and complex group of cells and biochemical processes. Its many components work to protect you from environmental threats—but your immune system requires nutritional support to function optimally. Scientific research is proving that some of the most powerful immune-supportive nutrients are found in mushrooms. People who realize the critical importance of optimizing immune function should seriously consider adding an advanced mushroom complex to their daily regimen.

No other mushroom formula offers the high-potency, broad-spectrum benefits of Source Naturals MUSHROOM IMMUNE DEFENSE. MUSHROOM IMMUNE DEFENSE features 16 of the best-studied species of health-supportive mushrooms, including shiitake, reishi, and maitake. These mushrooms contain compounds, including beta-glucans, glycoproteins and polysaccharides, that support a wide range of immune defenses: natural killer cell, T-cell and macrophage activity, and cytokine production. By combining a wide variety of mushrooms and fortifying them with extracts to ensure high potency, MUSHROOM IMMUNE DEFENSE offers a biochemically diverse formula that provides optimum immune assistance.



How Do Mushrooms Work?

Mushrooms are a treasure trove of bioactive compounds, but most of their immunomodulating activities have been attributed to polysaccharides (long-chain, simple sugars) and glycoproteins (polysaccharides naturally associated with proteins). These compounds activate a variety of immune responses.

Broad-Range Protection

MUSHROOM IMMUNE DEFENSE contains mycelia (networks of fibrous filaments) and extracts from the widest variety of mushroom species available.

Included are the following mushrooms, which have demonstrated the most evidence for immune defense.

Shiitake (*Lentinula edodes*): Lentinan, the beta glucan from shiitake, has been studied more extensively than similar substances and may be one of the most effective immunomodulators. Numerous studies have shown its ability to stimulate natural killer cell, T-cell, and macrophage-dependent responses.

Reishi (*Ganoderma lucidum*): Reishi's polysaccharides may stimulate macrophages and enhance T-cell proliferation, according to in vitro studies.

Maitake (*Grifola frondosa*): Maitake enhances the activities of natural killer cells, T-cells and macrophages, according to animal studies. MUSHROOM IMMUNE DEFENSE contains MaitakeGold 404™, a highly specialized maitake product, rich in beta-glucans, which is the only maitake beta-glucan fraction endorsed by the world's premier maitake researcher, Dr. Hiroaki Nanba,

Ph.D. **Turkey Tails** (*Trametes versicolor*): These mushrooms have a long history of traditional use in Asia. One in vitro study suggests that its polysaccharides stimulate macrophages.

Almond portabella (*Agaricus blazei*): This mushroom may stimulate the immune system by increasing T-cell activity, according to animal studies.

Cordyceps (*Cordyceps sinensis*): Cordyceps came to international attention during National Games in China when, in one week, three women's track and field world records were broken. The coach partially credited a cordyceps elixir. Cordyceps was found to augment antibody and other immune responses in one animal study, and a cordyceps polysaccharide was found to elevate cytokines in vitro.

MUSHROOM IMMUNE DEFENSE contains 10 additional mushrooms, including enoke, oyster, *Polyporus umbellatus*, and *Poria cocos*. Vitamin C is added to enhance absorption and activity.

Unparalleled Immune Support

A focus on immune support can pay tremendous dividends for your entire life. If you are dedicated to good health, you want a powerful formula on your side. Source Naturals is proud to join forces with your natural foods retailer to bring you an unparalleled immune formula: MUSHROOM IMMUNE DEFENSE.

References

- Kurashige S, et al. 1997. *Immunopharmacol Immunotoxicol* 19(2):175-83.
- Wang S. Y. et al. 1994. Program and Abstracts of the '94 International Symposium on Ganoderma Research. Beijing: Beijing Medical University.
- Wasser S. P. and Weis A. L. 1999a. *Crit Rev Immunol*, 19, 65-96.



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